

POST Control of Waterhemp: Non-Crop

Brooklyn, WI 2024

Trial Information

Trial Sponsor: Corteva

Objective: Evaluate postemergence waterhemp control of common soybean herbicides and tank mixes

Crop: none

Variety: -

Weed species (pressure): glyphosate-resistant waterhemp (high-very high)

Herbicide Application(s): POST – 6/27 (1-10" waterhemp; Avg = 4")

For the full report see trial #24-BRO-BG01 in the [2024 Wisconsin Weed Science Research Report](#)



Cropping Systems Weed Science
UNIVERSITY OF WISCONSIN-MADISON

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Trt #	Herbicide (rate acre ⁻¹)	Waterhemp (%)			
		6 DAT	13 DAT	20 DAT	26 DAT
1	Untreated Check	0	0	0	0
One-Pass – POST (6/27)					
2	Enlist One (2 pt) + Enversa (3 pt) + AMS ^b	84	77	80	70
3	Liberty (32 oz) + Enversa (3 pt) + AMS ^b	87	75	61	50
4	Roundup PM3 (22 oz) + Enversa (3 pt) + AMS ^b	33	34	31	26
5	Enlist One (2 pt) + Liberty (32 oz) + Enversa (3 pt) + AMS ^b	90	90	88	81
6	Enlist One (2 pt) + Roundup PM3 (22 oz) + Enversa (3 pt) + AMS ^b	87	87	94	93
7	Enlist One (2 pt) + Liberty (32 oz) + RU PM3 (22 oz) + Enversa (3 pt) + AMS ^b	89	83	85	76
8	Flexstar (1 pt) + Enversa (3 pt) + AMS ^b	79	54	45	38
9	Xtendimax (22 oz) + Enversa (3 pt) + Class Act Ridion (1% v/v)	70	66	71	66
		LSD ($\alpha=0.10$)	8	7	7
		p value	<.001	<.001	<.001

^aVisual control from 70-100% is illustrated on a color scale with green representing greater weed control values.

^bAMSOL (liquid) applied at 2.5% v/v

POST Control of Waterhemp: Non-Crop Brooklyn, WI 2024

Plot pictures taken on 7/3
6 days after application

The number in the upper right-hand corner is the average % waterhemp control of 4 replications

6 days after POST (7/3)
Untreated Check

0%



6 days after POST (7/3)

POST: 2 pt Enlist One + 3 pt Enversa + AMS

84%



6 days after POST (7/3)

POST: 32 oz Liberty + 3 pt Enversa + AMS

87%



6 days after POST (7/3)
POST: 22 oz Roundup PowerMAX3 + 3 pt Enversa + AMS

33%



6 days after POST (7/3)
POST: 2 pt Enlist One + 32 oz Liberty + 3 pt Enversa + AMS

90%



6 days after POST (7/3)

87%

POST: 2 pt Enlist One + 22 oz Roundup PM3 + 3 pt Enversa + AMS



6 days after POST (7/3)

89%

POST: 2 pt Enlist One + 32 oz Liberty + 22 oz RU PM3 + 3 pt Enversa + AMS



6 days after POST (7/3)

POST: 1 pt Flexstar + 3 pt Enversa + AMS

79%



6 days after POST (7/3)
POST: 22 oz XtendiMAX + 3 pt Enversa + Class Act Ridion

70%



POST Control of Waterhemp: Non-Crop Brooklyn, WI 2024

Plot pictures taken on 7/10
13 days after application

The number in the upper right-hand corner is the average % waterhemp control of 4 replications

13 days after POST (7/10)
Untreated Check

0%



13 days after POST (7/10)

POST: 2 pt Enlist One + 3 pt Enversa + AMS

77%



13 days after POST (7/10)

POST: 32 oz Liberty + 3 pt Enversa + AMS

75%



13 days after POST (7/10)

34%

POST: 22 oz Roundup PowerMAX3 + 3 pt Enversa + AMS



13 days after POST (7/10)

90%

POST: 2 pt Enlist One + 32 oz Liberty + 3 pt Enversa + AMS



13 days after POST (7/10)

87%

POST: 2 pt Enlist One + 22 oz Roundup PM3 + 3 pt Enversa + AMS



13 days after POST (7/10)

POST: 2 pt Enlist One + 32 oz Liberty + 22 oz RU PM3 + 3 pt Enversa + AMS

83%



13 days after POST (7/10)

54%

POST: 1 pt Flexstar + 3 pt Enversa + AMS



13 days after POST (7/10)

66%

POST: 22 oz XtendiMAX + 3 pt Enversa + Class Act Ridion



POST Control of Waterhemp: Non-Crop Brooklyn, WI 2024

Plot pictures taken on 7/17
20 days after application

The number in the upper right-hand corner is the average % waterhemp control of 4 replications

20 days after POST (7/17)
Untreated Check

0%



20 days after POST (7/17)

POST: 2 pt Enlist One + 3 pt Enversa + AMS

80%



20 days after POST (7/17)

POST: 32 oz Liberty + 3 pt Enversa + AMS

61%



20 days after POST (7/17)

31%

POST: 22 oz Roundup PowerMAX3 + 3 pt Enversa + AMS



20 days after POST (7/17)

POST: 2 pt Enlist One + 32 oz Liberty + 3 pt Enversa + AMS

88%



20 days after POST (7/17)

94%

POST: 2 pt Enlist One + 22 oz Roundup PM3 + 3 pt Enversa + AMS



20 days after POST (7/17)

POST: 2 pt Enlist One + 32 oz Liberty + 22 oz RU PM3 + 3 pt Enversa + AMS

85%



20 days after POST (7/17)

POST: 1 pt Flexstar + 3 pt Enversa + AMS

45%



20 days after POST (7/17)

71%

POST: 22 oz XtendiMAX + 3 pt Enversa + Class Act Ridion



POST Control of Waterhemp: Non-Crop Brooklyn, WI 2024

Plot pictures taken on 7/23
26 days after application

The number in the upper right-hand corner is the average % waterhemp control of 4 replications

26 days after POST (7/23)

Untreated Check

0%



26 days after POST (7/23)

POST: 2 pt Enlist One + 3 pt Enversa + AMS

70%



26 days after POST (7/23)

POST: 32 oz Liberty + 3 pt Enversa + AMS

50%



26 days after POST (7/23)

26%

POST: 22 oz Roundup PowerMAX3 + 3 pt Enversa + AMS



26 days after POST (7/23)

81%

POST: 2 pt Enlist One + 32 oz Liberty + 3 pt Enversa + AMS



26 days after POST (7/23)

93%

POST: 2 pt Enlist One + 22 oz Roundup PM3 + 3 pt Enversa + AMS



26 days after POST (7/23)

POST: 2 pt Enlist One + 32 oz Liberty + 22 oz RU PM3 + 3 pt Enversa + AMS

76%



26 days after POST (7/23)

POST: 1 pt Flexstar + 3 pt Enversa + AMS

38%



26 days after POST (7/23)

POST: 22 oz XtendiMAX + 3 pt Enversa + Class Act Ridion

66%

